

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Comugen Ltd.

OM protein - protein search, using sw model

Run on: June 25, 2003, 14:55:36 ; Search time 17.4806 Seconds

(without alignments)
680.911 Million cell updates/sec

Title: US-09-622-613b-15

Perfect score: 602

Sequence: 1 2MMATFOOKHIINTPLICNT.....ICVCKENQYVPHAGIGRCP 110

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108205813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_AA:*

1: /cgn2_6/ptodata/1/pubppa/US08_NEW_PUB.pep:*

2: /cgn2_6/ptodata/1/pubppa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubppa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubppa/US07_NEW_PUB.pep:*

5: /cgn2_6/ptodata/1/pubppa/US07_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubppa/PCUTUS_PUBCOMB.pep:*

7: /cgn2_6/ptodata/1/pubppa/US08_PUBCOMB.pep:*

8: /cgn2_6/ptodata/1/pubppa/US09_NEW_PUB.pep:*

9: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB.pep:*

10: /cgn2_6/ptodata/1/pubppa/US10_NEW_PUB.pep:*

11: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep:*

12: /cgn2_6/ptodata/1/pubppa/US60_NEW_PUB.pep:*

13: /cgn2_6/ptodata/1/pubppa/US60_PUBCOMB.pep:*

14: /cgn2_6/ptodata/1/pubppa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	602	100.0	110	9	US-09-948-391A-15
2	597	99.2	110	9	US-09-948-391A-24
3	597	99.2	111	9	US-09-948-391A-26
4	596	99.0	111	9	US-09-948-391A-17
5	596	99.0	111	9	US-09-948-391A-21
6	596	99.0	117	9	US-09-948-391A-22
7	590	98.0	110	9	US-09-948-391A-19
8	281.5	46.8	105	9	US-09-948-391A-6
9	281.5	46.8	127	9	US-09-948-391A-28
10	280.5	46.6	104	9	US-09-948-391A-2
11	277.5	46.1	105	9	US-10-153-882-2
12	276.5	45.9	104	9	US-09-948-391A-11
13	276.5	45.9	105	9	US-09-948-391A-13
14	275.5	45.8	104	9	US-09-948-391A-14
15	272.5	45.3	104	9	US-09-986-119-1
16	266.5	44.3	105	9	US-09-948-391A-8
17	266.5	44.3	111	9	US-09-948-391A-9
18	206	37.1	83	9	US-09-986-119-3
19	163	27.2	169	12	US-10-016-447-2

20	117	19.4	147	10	US-09-731-872-254	Sequence 254, App
21	114.5	19.0	124	9	US-09-981-286A-8	Sequence 8, Appl
22	114	18.9	124	12	US-10-016-447-5	Sequence 5, Appl
23	113	18.8	131	12	US-10-016-447-6	Sequence 6, Appl
24	113	18.8	147	10	US-09-286-240-6	Sequence 6, Appl
25	113	18.8	147	10	US-09-863-777-2	Sequence 2, Appl
26	92	15.3	161	9	US-10-001-876-197	Sequence 197, App
27	79	13.1	77	9	US-09-925-299-836	Sequence 836, App
28	79	13.1	77	10	US-09-925-299-836	Sequence 836, App
29	75	12.5	156	9	US-09-796-753-102	Sequence 102, App
30	75	12.5	156	9	US-09-796-753-118	Sequence 118, App
31	75	12.5	156	9	US-10-245-103-60	Sequence 60, Appl
32	75	12.5	156	9	US-10-245-107-60	Sequence 60, Appl
33	75	12.5	156	9	US-10-245-143-60	Sequence 60, Appl
34	75	12.5	156	9	US-10-245-171-60	Sequence 60, Appl
35	75	12.5	156	9	US-10-245-851-60	Sequence 60, Appl
36	75	12.5	156	9	US-10-245-883-60	Sequence 60, Appl
37	75	12.5	156	9	US-10-237-535-60	Sequence 60, Appl
38	75	12.5	156	9	US-10-238-183-60	Sequence 60, Appl
39	75	12.5	156	9	US-10-238-183-60	Sequence 60, Appl
40	75	12.5	156	9	US-10-238-370-60	Sequence 60, Appl
41	75	12.5	156	9	US-10-245-055-60	Sequence 60, Appl
42	75	12.5	156	9	US-10-245-147-60	Sequence 60, Appl
43	75	12.5	156	9	US-10-245-730-60	Sequence 60, Appl
44	75	12.5	156	9	US-10-245-739-60	Sequence 60, Appl
45	75	12.5	156	9	US-10-246-210-60	Sequence 60, Appl

ALIGNMENTS

RESULT 1

US-09-948-391A-15

Sequence 15, Application US/09948391A

Publication No. US2003002311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

APPLICANT: Department of Health and Human Services

TITLE OR INVENTION: Recombinant Anti-Tumor RNase

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948, 391A

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079,751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622, 613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 15

LENGTH: 110

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Rana

OTHER INFORMATION: catshelana oocyte ribonuclease (RacOR1) synthetic

OTHER INFORMATION: gene modified to use E. coli preferred codons

US-09-948-391A-15

Query Match 100.0%: Score 602; DB 9; Length 110;

Best Local Similarity 100.0%; Pred. No. 8, 4e-60;

Matches 110: Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 2MMATFOOKHIINTPLICNTIMDNNTIYVGGCKRVATFISSATYKATCTGVINNNVL 60

DB 1 2MMATFOOKHIINTPLICNTIMDNNTIYVGGCKRVATFISSATYKATCTGVINNNVL 60

QY 61 STTRPOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHAGIGRCP 110

```

: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America

```

APPLICANT: as represented by the Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1,
OTHER INFORMATION: Met231leu and Met581leu substitutions (recombinant
OTHER INFORMATION: Met(-1) RacOR1 Met221leu Met571leu)
US-09-948-391A-21

Query Match 99.0%; Score 596; DB 9; Length 111;
Best Local Similarity 98.2%; Pred. No. 4e-59;
Matches 108; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ONMATFOOKHIIINPIICNTIMDNIIYVGGCKRVNFIISATTVKATCGVINNV 60
DB 2 ONMATFOOKHIIINPIICNTIMDNIIYVGGCKRVNFIISATTVKATCGVINNV 61
QY 61 STTRQQLNCTRTSTPRPCPYSSRTETNYICVGCENQYPVHFGIGRCP 110
DB 62 STTRQQLNCTRTSTPRPCPYSSRTETNYICVGCENQYPVHFGIGRCP 111

RESULT 6
US-09-948-391A-22
Sequence 22, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by the Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 117
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with (His)6 tag, Met at
OTHER INFORMATION: position 7, Met231leu and Met581leu substitutions
OTHER INFORMATION: (recombinant Met(-1) RacOR1 Met221leu Met571leu (His)6)
US-09-948-391A-22

Query Match 99.0%; Score 596; DB 9; Length 117;
Best Local Similarity 98.2%; Pred. No. 4.2e-59;

Matches 108; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ONMATFOOKHIIINPIICNTIMDNIIYVGGCKRVNFIISATTVKATCGVINNV 60
DB 8 ONMATFOOKHIIINPIICNTIMDNIIYVGGCKRVNFIISATTVKATCGVINNV 67
QY 61 STTRQQLNCTRTSTPRPCPYSSRTETNYICVGCENQYPVHFGIGRCP 110
DB 68 STTRQQLNCTRTSTPRPCPYSSRTETNYICVGCENQYPVHFGIGRCP 117

RESULT 7
US-09-948-391A-19
Sequence 19, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by the Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met221leu and
OTHER INFORMATION: Met571leu substitutions (recombinant RacOR1
OTHER INFORMATION: Met221leu Met571leu)
US-09-948-391A-19

Query Match 98.0%; Score 590; DB 9; Length 110;
Best Local Similarity 97.3%; Pred. No. 1.8e-58;
Matches 107; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ONMATFOOKHIIINPIICNTIMDNIIYVGGCKRVNFIISATTVKATCGVINNV 60
DB 1 ONMATFOOKHIIINPIICNTIMDNIIYVGGCKRVNFIISATTVKATCGVINNV 60
QY 61 STTRQQLNCTRTSTPRPCPYSSRTETNYICVGCENQYPVHFGIGRCP 110
DB 61 STTRQQLNCTRTSTPRPCPYSSRTETNYICVGCENQYPVHFGIGRCP 110

RESULT 8
US-09-948-391A-6
Sequence 6, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by the Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 105
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant
US-09-948-391A-6

Query Match 46.8%; Score 281.5; DB 9; Length 105;
Best Local Similarity 49.5%; Pred. No. 4.5e-24;
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Qy 1 ONMATEFOOKHIINT-PIICNTIMDNNTIYVGQCKRVNTFISSATYKAICTGYI-NMN 58
Db 2 ODMLTFQKKHLNTRDVDCNNIMSTNLF----HCKDKNTFTYSRPEPVKAICKGIASKN 57

Qy 59 VLTSTRFQNLNCTRTSITRPPCPYSSRTETNYICVGCENQYVPHFAGIGRC 109
Db 58 VLTSEFYLSDC---NVTSRCKYKLRKSTNFTCVTCENQAPVHFGVGHG 105

RESULT 9
US-09-948-391A-28
Sequence 28, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Department of Health and Human Services
FILE REFERENCE: 015280-34311005
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 28
LENGTH: 127
TYPE: PRT
ORGANISM: Rana pipiens
FEATURE:
OTHER INFORMATION: Rana pipiens ribonuclease (RapRL1) Clone Saib cDNA
US-09-948-391A-28

Query Match 46.8%; Score 281.5; DB 9; Length 127;
Best Local Similarity 49.5%; Pred. No. 5.6e-24;
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Qy 1 ONMATEFOOKHIINT-PIICNTIMDNNTIYVGQCKRVNTFISSATYKAICTGYI-NMN 58
Db 24 ODMLTFQKKHLNTRDVDCNNIMSTNLF----HCKDKNTFTYSRPEPVKAICKGIASKN 79

Qy 59 VLTSTRFQNLNCTRTSITRPPCPYSSRTETNYICVGCENQYVPHFAGIGRC 109
Db 80 VLTSEFYLSDC---NVTSRCKYKLRKSTNFTCVTCENQAPVHFGVGHG 127

RESULT 10
US-09-948-391A-2
Sequence 2, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Department of Health and Human Services
FILE REFERENCE: 015280-34311005
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 104
TYPE: PRT
ORGANISM: Rana pipiens
FEATURE:
OTHER INFORMATION: ribonuclease (RapRL1)
US-09-948-391A-2

Query Match 46.6%; Score 280.5; DB 9; Length 104;
Best Local Similarity 49.5%; Pred. No. 5.7e-24;
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Qy 1 ONMATEFOOKHIINT-PIICNTIMDNNTIYVGQCKRVNTFISSATYKAICTGYI-NMN 58
Db 1 ODMLTFQKKHLNTRDVDCNNIMSTNLF----HCKDKNTFTYSRPEPVKAICKGIASKN 56

Qy 59 VLTSTRFQNLNCTRTSITRPPCPYSSRTETNYICVGCENQYVPHFAGIGRC 109
Db 57 VLTSEFYLSDC---NVTSRCKYKLRKSTNFTCVTCENQAPVHFGVGHG 104

RESULT 11
US-10-153-882-2
Sequence 82, Application US/10153882
Publication No. US2003009629A1
GENERAL INFORMATION:
APPLICANT: GOLDENBERG, David M.
APPLICANT: HANSEN, Hans
APPLICANT: LEUNG, Shui-on
TITLE OF INVENTION: RECOMBINANT ONCOMASE, AND CHEMICAL CONJUGATES AND
TITLE OF INVENTION: FUSION PROTEINS OF RECOMBINANT ONCOMASE
FILE REFERENCE: 018733/0913
CURRENT APPLICATION NUMBER: US/10/153,882
CURRENT FILING DATE: 2002-05-24
PRIOR APPLICATION NUMBER: US/09/265,901
PRIOR FILING DATE: 1999-03-11
PRIOR APPLICATION NUMBER: US 60/077,557
PRIOR FILING DATE: 1998-03-11
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 105
TYPE: PRT
ORGANISM: Rana pipiens
US-10-153-882-2

Query Match 46.1%; Score 277.5; DB 9; Length 105;
Best Local Similarity 49.5%; Pred. No. 1.2e-23;
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Qy 1 ONMATEFOOKHIINT-PIICNTIMDNNTIYVGQCKRVNTFISSATYKAICTGYI-NMN 58

Db 2 ODMITFOCKHITNTRDVDCDNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKN 57
OY 59 VLSITRFOJNTCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109
Db 58 VLTISEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 105

RESULT 12

US-09-948-391A-11
Sequence 11, Application US/09948391A
Publication No. US20030027311A1

GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the
Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor RNase

FILE REFERENCE: 015280-343110US

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079,751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 11

LENGTH: 104

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens

OTHER INFORMATION: ribonuclease with GlnSer substitution

OTHER INFORMATION: (recombinant RapLRI Q1S)

US-09-948-391A-11

Query Match 45.9%: Score 276.5; DB 9; Length 104;

Best Local Similarity 49.1%: Pred. No. 1.6e-23;

Matches 54; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

OY 2 NMATFOCKHITNT-PIICNTIMDNNTIYVGGCKRVNTFIISATTVKATIGTVI-NMN 59

Db 2 DMLTFCKHITNTRDVDCDNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKN 57

OY 60 LSTRFOJNTCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109

Db 58 LTTSEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 104

RESULT 13

US-09-948-391A-13
Sequence 13, Application US/09948391A
Publication No. US20030027311A1

GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the
Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor RNase

FILE REFERENCE: 015280-343110US

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079,751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 105

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens

OTHER INFORMATION: ribonuclease with Met at position 1 and GlnSer

OTHER INFORMATION: substitution (recombinant Met(-1) RapLRI Q1S)

US-09-948-391A-13

Query Match 45.9%: Score 276.5; DB 9; Length 105;

Best Local Similarity 49.1%: Pred. No. 1.6e-23;

Matches 54; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

OY 2 NMATFOCKHITNT-PIICNTIMDNNTIYVGGCKRVNTFIISATTVKATIGTVI-NMN 59

Db 3 DMLTFCKHITNTRDVDCDNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKN 58

OY 60 LSTRFOJNTCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109

Db 59 LTTSEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 105

RESULT 14

US-09-948-391A-4
Sequence 4, Application US/09948391A
Publication No. US20030027311A1

GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the
Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor RNase

FILE REFERENCE: 015280-343110US

CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079,751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 4

LENGTH: 104

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens

OTHER INFORMATION: ribonuclease with Met231eu substitution

OTHER INFORMATION: (recombinant RapLRI Met231eu)

US-09-948-391A-4

Query Match 45.8%: Score 275.5; DB 9; Length 104;

Best Local Similarity 48.6%: Pred. No. 2.1e-23;

Matches 54; Conservative 15; Mismatches 33; Indels 9; Gaps 4;

OY 1 NMATFOCKHITNT-PIICNTIMDNNTIYVGGCKRVNTFIISATTVKATIGTVI-NMN 58

Db 1 ODMITFOCKHITNTRDVDCDNIMSTNLF---HCKDKNFTFYSRPEPVKAICKGIIASKN 56

OY 59 VLSITRFOJNTCTRTSITPRPCPYSSRTETNYICVCKCENQYVHFAGIGRC 109

Db 57 VLTISEFYLSDC---NVTSRPCKYKLLKSKSTNFCVTCENQAPVHFVGVGHC 104

RESULT 15

US-09-986-119-1
Sequence 1, Application US/09986119

```

Publication NO. US20020187153A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
Newton, Diane L.
Goldenberg, David M.
TITLE OF INVENTION: Immunotoxins Directed Against Malignant Cells
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/966,119
FILING DATE: 07-NOV-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/071,672
FILING DATE: 01-MAY-1998
APPLICATION NUMBER: US 60/046,895
FILING DATE: 02-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 015280-32510US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 104 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1
OTHER INFORMATION: /product= "OTHER"
/note= "Xaa = Glu or proglutamic acid"
FEATURE:
NAME/KEY: Protein
LOCATION: 1..104
OTHER INFORMATION: /note= "RNase A derived from Rana pipiens, "onc protein""
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-966-119-1
Query Match 45.3%; Score 272.5; DB 9; Length 104;
Best Local Similarity 49.1%; Pred. No. 4.4e-23;
Matches 54; Conservative 15; Mismatches 32; Indels 9; Gaps 4;
OY 2 NMAIFQCKHINT-PITNTTMDNNIIVGQCCKRVNTPFIISATTVKAITGTVI-NMV 59
D 2 DMLTFKHHTNDVDNDIMSTNLF---HCKDKNTFIYSRPPYKAICKGIASKNV 57
60 LSTRFOGLNCTRTSIPRPDPYSRPTETNYICVKECMQYVHFAGTCRC 109
58 LTSEFLSDC---NVTISRPKYLKSTNKFCVTCENQAQAVHRVGWSC 104

```

Search completed: June 25, 2003, 15:42:16
Job time : 18.4806 secs